Title (en)

CONCURRENT DIRECTORY UPDATE IN A CLUSTER FILE SYSTEM

Title (de)

GLEICHZEITIGE VERZEICHNISAKTUALISIERUNG IN EINEM CLUSTER-DATEISYSTEM

Title (fr)

MISE À JOUR SIMULTANÉE DE RÉPERTOIRES DANS UN SYSTÈME DE FICHIERS EN GRAPPE

Publication

EP 2176794 A2 20100421 (EN)

Application

EP 08774364 A 20080626

Priority

- EP 2008058187 W 20080626
- US 77609207 A 20070711

Abstract (en)

[origin: WO2009007250A2] A method for avoiding directory conflicts across a file system having multiple nodes with one node representing a token manager. For each directory, at least one metanode responsible for directory updates. The method involving obtaining a name-based lock on a filename. Querying the token manager for a lock token. If a new token is obtained, sending a Remote Procedure Call (RPC) to the metanode to obtain matching directory entries, and caching the result of the RPC so that subsequent operations on that filename can be satisfied without additional messages sent to the metanode. Updating a cached directory block in memory by creating a new directory entry in the block or deleting an existing directory entry from the block. Information regarding the updating is sent to the metanode on one of: periodic schedule, a subsequent synchronization event, or when the name-based lock token is revoked.

IPC 8 full level

G06F 17/30 (2006.01)

CPC (source: EP US)

G06F 16/1774 (2018.12 - EP US)

Citation (search report)

See references of WO 2009007250A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

WO 2009007250 A2 20090115; **WO 2009007250 A3 20090319**; **WO 2009007250 A4 20090430**; EP 2176794 A2 20100421; US 2009019047 A1 20090115; US 2012166499 A1 20120628; US 8156164 B2 20120410; US 8484258 B2 20130709

DOCDB simple family (application)

EP 2008058187 W 20080626; EP 08774364 A 20080626; US 201213412569 A 20120305; US 77609207 A 20070711